

**REMOVAL PROGRAM
AFTER ACTION REPORT
FOR THE
OAK STREET REMOVAL SITE
TAUNTON, BRISTOL COUNTY, MASSACHUSETTS
5 AUGUST 2002 THROUGH 10 JANUARY 2003**

Prepared For:

U.S. Environmental Protection Agency
Region I
Emergency Planning and Response Branch
One Congress Street, Suite 1100
Boston, MA 02114-2023

CONTRACT NO. 68-W-00-097

TDD NO. 02-05-0218

TASK NO. 4232

DC NO. R-2073

Submitted by:

Weston Solutions, Inc.
Region I
Superfund Technical Assessment and Response Team 2000
37 Upton Drive
Wilmington, MA 01887

March 2003

TABLE OF CONTENTS

	<u>PAGE</u>
LIST OF APPENDICES	iii
1.0 INTRODUCTION	1
2.0 SITE CONDITIONS AND BACKGROUND	1
2.1 Site Location and Description	1
2.2 Site History/Previous Actions	1
2.3 EPA Removal Program Preliminary Assessment/Site Investigation	2
3.0 SUMMARY OF FEDERAL RESPONSE ACTIONS	2
3.1 Organization of the Response	2
3.2 Mobilization and Site Preparation	3
3.3 Chronology of Removal Activities	4
3.4 Community Relations	9
4.0 ESTIMATED COSTS OF THE REMOVAL ACTION	9

LIST OF APPENDICES

- Appendix A - Site Location Map (Figure 1)
- Appendix B - Site Diagram (Figure 2)
- Appendix C - Photodocumentation Log
- Appendix D - Post-Excavation Diagram (Figure 3)

1.0 INTRODUCTION

The following report, entitled *After Action Report for the Oak Street Removal Site, Taunton, Bristol County, Massachusetts, 5 August 2002 through 10 January 2003*, is a chronological summary of response operations completed by the U.S. Environmental Protection Agency (EPA), Region I, Emergency Planning and Response Branch (EPRB). The report details the situation as it developed, actions taken, and resources committed.

The removal action conducted at the Oak Street Site (the site) included mobilizing equipment and personnel, establishing work zones, clearing and grubbing, removing approximately 76 buried drums from the site, collecting drum samples for laboratory analysis, overpacking drums, excavating contaminated soil, and demobilizing equipment and personnel.

2.0 SITE CONDITIONS AND BACKGROUND

2.1 Site Location and Description

The site is a vacant lot located along Oak Street, in the City of Taunton, Bristol County, Massachusetts [See Appendix A-Site Location Map (Figure 1)]. The site is identified as Lot 39 in Block 35 of Plan 17, in Ward 7, according to the City of Taunton Tax Assessor's Map. The approximately 1.6-acre site is bordered to the north by wooded land and residential properties, to the east and west by residential properties, and to the south by Oak Street and a housing development [See Appendix B-Site Diagram (Figure 2)]. An elementary school is located approximately one-quarter mile east of the site along Oak Street. The site is partially wooded and generally level except for the northern and eastern perimeters of the site, which slope steeply into a ravine.

2.2 Site History/Previous Actions

The site and other contiguous properties located to the north and northeast of the site are owned by the Trustees of Rose Realty Trust One, Leonel Rose and Christine Rose. The site has been used in the past as an unlicensed landfill. On 22 October 1996, the Massachusetts Department of Environmental Protection (MA DEP) inspected the property and discovered that an area of approximately 1 acre, up to 30 to 40 feet deep, had been filled with solid waste. According to information provided by the City of Taunton Building Department, materials known to have been disposed of at the landfill include construction and demolition debris (asphalt, concrete, and brick) from a past reconstruction of Winthrop Street.

City of Taunton subcontractors, Resource Control Associates, Inc. (RCA), conducted a Phase I Site Assessment for the city during winter and spring 1998. RCA installed 10 monitoring wells at the site and conducted limited test pitting activities. Groundwater sampling revealed elevated levels of volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and metals. Soil samples collected during test pitting activities revealed the presence of VOCs in the soil. In March 2000, RCA returned to the site and conducted additional test pitting activities that revealed the presence of crushed drums and drum parts containing odorous residues. Samples collected from the drums indicated elevated levels of VOCs including toluene; 1,2,4-trichlorobenzene; and 1,2,3-trichlorobenzene.

In November 2001, the City of Taunton and MA DEP requested that the EPA initiate a preliminary assessment/site investigation (PA/SI) to determine if a time-critical removal action was appropriate for the site.

2.3 EPA Removal Program Preliminary Assessment/Site Investigation

On 27 December 2001, Roy F. Weston, Inc. [now known as Weston Solutions, Inc. (WESTON_{SM})], Superfund Technical Assessment and Response Team (START) personnel arrived at the site and met EPA On-Scene Coordinator (OSC) Frank Gardner. The purpose of this visit was to initiate a PA/SI at the site. The PA/SI was separated into three components: a surficial soil sampling survey of the entire property conducted on 27 and 28 December 2001; a geophysical survey of the site using a EG & G Geometrics_{TM} Proton Precision Magnetometer and Geonics_{TM} Limited EM-31 Non-Contracting Terrain Conductivity Meter conducted on 3 and 4 January 2002; and test pitting activities based upon the results of the previous surveys conducted on 22 January 2002. The results of the PA/SI are documented in the report, entitled *Removal Program Preliminary Assessment/Site Investigation for the Oak Street Site, Taunton, Massachusetts*, dated March 2002.

On 6 June 2002, the Removal Action Memorandum was signed by Larry Brill, Acting Deputy Director for Patricia Meany, initiating a time-critical removal action at the site.

3.0 SUMMARY OF FEDERAL RESPONSE ACTIONS

3.1 Organization of the Response

Organization of the Response		
Organization	Representatives	Responsibilities
U.S. EPA - Region I Emergency Planning and Response Branch 1 Congress Street, Suite 1100 Boston, MA 02114-2023 (617) 918-1278	Frank Gardner	On-Scene Coordinator (OSC) responsible for the initiation, oversight, and completion of all removal activities.
Shaw Environmental & Infrastructure, Inc. Emergency Rapid Response Services (ERRS) 88C Elm Street Hopkinton, MA 01754 (508) 435-9561	Robert Sirois	ERRS Response Manager for the Emergency Rapid Response Services (ERRS) contractor that performed removal activities. The RM was responsible for oversight and organization of mobilization, demobilization, and subcontractor activities.

Organization of the Response		
Organization	Representatives	Responsibilities
Weston Solutions, Inc. [formerly known as Roy F. Weston, Inc. (WESTON)] Superfund Technical Assessment and Response Team (START) 37 Upton Drive Wilmington, MA 01887 (978) 657-5400 ext. 273	Alysha Thompson	Site Leader who provided the OSC with technical assistance, site documentation, site health and safety monitoring, sampling, and report preparation.
RUSMAR Inc. 216 Garfield Avenue West Chester, PA 19380 (610) 436-8436	Rebekah Garmish	ERRS subcontractor responsible for providing a foam emission control unit.
Hayward-Boynton & Williams, Inc. 60 Court Street Taunton, MA 02780 (508) 822-9870	Hugh Hurley	ERRS subcontractor responsible for surveying and establishing temporary fencing along the perimeter of the property.
Ace Security Services 154 N. Main Street Fall River, MA 02720 (508) 675-5383	Mike Kirk	ERRS subcontractor responsible for providing on-site security during non-working hours.
Williams Scottsman 115 Godianne Road Smithfield, RI 02917 (401) 233-3900	Sales Representative	ERRS subcontractor responsible for providing office trailers.
Hertz Rental Company 45 Gerard Street Boston, MA 02119 (617) 442-4210	Service Department	ERRS subcontractor responsible for providing heavy equipment.
Wright Rental 3842 Congress Parkway Richfield, OH (330) 659-4222	Nikki Shaker	ERRS subcontractor responsible for providing level B safety equipment.
Groundwater Treatment & Technologies, Inc. P.O. Box 1174 Denville, NJ 07834 (973) 983-0901	Bob Kunzel	ERRS subcontractor responsible for providing the carbon treatment system for the site.

3.2 Mobilization and Site Preparation

On 5 August 2002, EPA OSC Gardner, START Site Leader (SL) Alysha Thompson, and Shaw Environmental & Infrastructure, Inc. (Shaw) Emergency Rapid Response Services (ERRS) contract Response Manager (RM) Robert Sirois mobilized to the site. The site-specific removal health and safety plan (HASP) was reviewed and signed by all site personnel before any site work commenced.

In addition, emergency telephone numbers and directions to the hospital were discussed, and site work zones were delineated. All site activities were performed in appropriate personal protective equipment (PPE) in accordance with the HASP. The site HASP was prepared by START personnel as a separate document, entitled *Health and Safety Plan for the Oak Street Site, Taunton, Bristol County, Massachusetts*. The delivery of two office trailers, two portable restrooms, and the mobilization and staging of ERRS equipment was initiated on 5 August 2002.

Site preparation activities conducted by ERRS personnel consisted of clearing and grubbing the wooded area within the work zone; clearing trees and shrubbery along the property boundaries; constructing a truck turnaround and staging areas on the site; and installing silt fence and hay bales along the perimeter of the property.

3.3 Chronology of Removal Activities

Week Ending Friday, 9 August 2002

OSC Gardner, ERRS RM Sirois, and START SL Thompson mobilized to the site. SL Thompson was on site each week during site activities, unless otherwise noted. A safety meeting was conducted to discuss the HASP. Prior to the initiation of site activities, the HASP was signed by all personnel on site. For the duration of the removal, daily safety meetings were conducted prior to the initiation of site activities.

ERRS Foreman (FM) Paul Ledoux, Equipment Operator (EO) Steve Marchand, and Remediation Technicians (RTs) Dan Sylvia and Dave Hughes mobilized to site and commenced clearing and grubbing activities in preparation for excavation activities.

On 9 August 2002, ERRS FM Ledoux demobilized from site and RT Sylvia assumed foreman responsibilities for the remainder of site activities.

11 August 2002 through 6 September 2002

ERRS personnel mobilized to the site each week during this period to conduct clearing and grubbing activities. A wood chipper was mobilized to site to chip small trees that had been cleared.

Electricity was connected and telephone lines were installed to the trailers. Hay bales and silt fence were installed around the perimeter of the exclusion zone for erosion control purposes. An excavator was mobilized to be used upon commencement of excavation activities.

On 3 September 2002, Hayward-Boynton & Williams representatives mobilized to site and installed temporary orange caution fencing along the perimeter of the property.

Week Ending Friday, 13 September 2002

ERRS personnel were on site to complete the installation of the hay bales and silt fence and to prepare for excavation activities. All remaining trees and shrubs that had been previously cut down were chipped using the wood chipper. ERRS delineated the exclusion zone (EZ), the contamination

**REMOVAL PROGRAM
AFTER ACTION REPORT
FOR THE
OAK STREET REMOVAL SITE
TAUNTON, BRISTOL COUNTY, MASSACHUSETTS
5 AUGUST 2002 THROUGH 10 JANUARY 2003**

Prepared For:

U.S. Environmental Protection Agency
Region I
Emergency Planning and Response Branch
One Congress Street, Suite 1100
Boston, MA 02114-2023

CONTRACT NO. 68-W-00-097

TDD NO. 02-05-0218

TASK NO. 4232

DC NO. R-2073

Submitted by:

Weston Solutions, Inc.
Region I
Superfund Technical Assessment and Response Team 2000
37 Upton Drive
Wilmington, MA 01887

March 2003

TABLE OF CONTENTS

	<u>PAGE</u>
LIST OF APPENDICES	iii
1.0 INTRODUCTION	1
2.0 SITE CONDITIONS AND BACKGROUND	1
2.1 Site Location and Description	1
2.2 Site History/Previous Actions	1
2.3 EPA Removal Program Preliminary Assessment/Site Investigation	2
3.0 SUMMARY OF FEDERAL RESPONSE ACTIONS	2
3.1 Organization of the Response	2
3.2 Mobilization and Site Preparation	3
3.3 Chronology of Removal Activities	4
3.4 Community Relations	9
4.0 ESTIMATED COSTS OF THE REMOVAL ACTION	9

LIST OF APPENDICES

- Appendix A - Site Location Map (Figure 1)
- Appendix B - Site Diagram (Figure 2)
- Appendix C - Photodocumentation Log
- Appendix D - Post-Excavation Diagram (Figure 3)

1.0 INTRODUCTION

The following report, entitled *After Action Report for the Oak Street Removal Site, Taunton, Bristol County, Massachusetts, 5 August 2002 through 10 January 2003*, is a chronological summary of response operations completed by the U.S. Environmental Protection Agency (EPA), Region I, Emergency Planning and Response Branch (EPRB). The report details the situation as it developed, actions taken, and resources committed.

The removal action conducted at the Oak Street Site (the site) included mobilizing equipment and personnel, establishing work zones, clearing and grubbing, removing approximately 76 buried drums from the site, collecting drum samples for laboratory analysis, overpacking drums, excavating contaminated soil, and demobilizing equipment and personnel.

2.0 SITE CONDITIONS AND BACKGROUND

2.1 Site Location and Description

The site is a vacant lot located along Oak Street, in the City of Taunton, Bristol County, Massachusetts [See Appendix A-Site Location Map (Figure 1)]. The site is identified as Lot 39 in Block 35 of Plan 17, in Ward 7, according to the City of Taunton Tax Assessor's Map. The approximately 1.6-acre site is bordered to the north by wooded land and residential properties, to the east and west by residential properties, and to the south by Oak Street and a housing development [See Appendix B-Site Diagram (Figure 2)]. An elementary school is located approximately one-quarter mile east of the site along Oak Street. The site is partially wooded and generally level except for the northern and eastern perimeters of the site, which slope steeply into a ravine.

2.2 Site History/Previous Actions

The site and other contiguous properties located to the north and northeast of the site are owned by the Trustees of Rose Realty Trust One, Leonel Rose and Christine Rose. The site has been used in the past as an unlicensed landfill. On 22 October 1996, the Massachusetts Department of Environmental Protection (MA DEP) inspected the property and discovered that an area of approximately 1 acre, up to 30 to 40 feet deep, had been filled with solid waste. According to information provided by the City of Taunton Building Department, materials known to have been disposed of at the landfill include construction and demolition debris (asphalt, concrete, and brick) from a past reconstruction of Winthrop Street.

City of Taunton subcontractors, Resource Control Associates, Inc. (RCA), conducted a Phase I Site Assessment for the city during winter and spring 1998. RCA installed 10 monitoring wells at the site and conducted limited test pitting activities. Groundwater sampling revealed elevated levels of volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and metals. Soil samples collected during test pitting activities revealed the presence of VOCs in the soil. In March 2000, RCA returned to the site and conducted additional test pitting activities that revealed the presence of crushed drums and drum parts containing odorous residues. Samples collected from the drums indicated elevated levels of VOCs including toluene; 1,2,4-trichlorobenzene; and 1,2,3-trichlorobenzene.

In November 2001, the City of Taunton and MA DEP requested that the EPA initiate a preliminary assessment/site investigation (PA/SI) to determine if a time-critical removal action was appropriate for the site.

2.3 EPA Removal Program Preliminary Assessment/Site Investigation

On 27 December 2001, Roy F. Weston, Inc. [now known as Weston Solutions, Inc. (WESTON_{SM})], Superfund Technical Assessment and Response Team (START) personnel arrived at the site and met EPA On-Scene Coordinator (OSC) Frank Gardner. The purpose of this visit was to initiate a PA/SI at the site. The PA/SI was separated into three components: a surficial soil sampling survey of the entire property conducted on 27 and 28 December 2001; a geophysical survey of the site using a EG & G Geometrics_{TM} Proton Precision Magnetometer and Geonics_{TM} Limited EM-31 Non-Contracting Terrain Conductivity Meter conducted on 3 and 4 January 2002; and test pitting activities based upon the results of the previous surveys conducted on 22 January 2002. The results of the PA/SI are documented in the report, entitled *Removal Program Preliminary Assessment/Site Investigation for the Oak Street Site, Taunton, Massachusetts*, dated March 2002.

On 6 June 2002, the Removal Action Memorandum was signed by Larry Brill, Acting Deputy Director for Patricia Meany, initiating a time-critical removal action at the site.

3.0 SUMMARY OF FEDERAL RESPONSE ACTIONS

3.1 Organization of the Response

Organization of the Response		
Organization	Representatives	Responsibilities
U.S. EPA - Region I Emergency Planning and Response Branch 1 Congress Street, Suite 1100 Boston, MA 02114-2023 (617) 918-1278	Frank Gardner	On-Scene Coordinator (OSC) responsible for the initiation, oversight, and completion of all removal activities.
Shaw Environmental & Infrastructure, Inc. Emergency Rapid Response Services (ERRS) 88C Elm Street Hopkinton, MA 01754 (508) 435-9561	Robert Sirois	ERRS Response Manager for the Emergency Rapid Response Services (ERRS) contractor that performed removal activities. The RM was responsible for oversight and organization of mobilization, demobilization, and subcontractor activities.

Organization of the Response		
Organization	Representatives	Responsibilities
Weston Solutions, Inc. [formerly known as Roy F. Weston, Inc. (WESTON)] Superfund Technical Assessment and Response Team (START) 37 Upton Drive Wilmington, MA 01887 (978) 657-5400 ext. 273	Alysha Thompson	Site Leader who provided the OSC with technical assistance, site documentation, site health and safety monitoring, sampling, and report preparation.
RUSMAR Inc. 216 Garfield Avenue West Chester, PA 19380 (610) 436-8436	Rebekah Garmish	ERRS subcontractor responsible for providing a foam emission control unit.
Hayward-Boynton & Williams, Inc. 60 Court Street Taunton, MA 02780 (508) 822-9870	Hugh Hurley	ERRS subcontractor responsible for surveying and establishing temporary fencing along the perimeter of the property.
Ace Security Services 154 N. Main Street Fall River, MA 02720 (508) 675-5383	Mike Kirk	ERRS subcontractor responsible for providing on-site security during non-working hours.
Williams Scottsman 115 Godianne Road Smithfield, RI 02917 (401) 233-3900	Sales Representative	ERRS subcontractor responsible for providing office trailers.
Hertz Rental Company 45 Gerard Street Boston, MA 02119 (617) 442-4210	Service Department	ERRS subcontractor responsible for providing heavy equipment.
Wright Rental 3842 Congress Parkway Richfield, OH (330) 659-4222	Nikki Shaker	ERRS subcontractor responsible for providing level B safety equipment.
Groundwater Treatment & Technologies, Inc. P.O. Box 1174 Denville, NJ 07834 (973) 983-0901	Bob Kunzel	ERRS subcontractor responsible for providing the carbon treatment system for the site.

3.2 Mobilization and Site Preparation

On 5 August 2002, EPA OSC Gardner, START Site Leader (SL) Alysha Thompson, and Shaw Environmental & Infrastructure, Inc. (Shaw) Emergency Rapid Response Services (ERRS) contract Response Manager (RM) Robert Sirois mobilized to the site. The site-specific removal health and safety plan (HASP) was reviewed and signed by all site personnel before any site work commenced.

In addition, emergency telephone numbers and directions to the hospital were discussed, and site work zones were delineated. All site activities were performed in appropriate personal protective equipment (PPE) in accordance with the HASP. The site HASP was prepared by START personnel as a separate document, entitled *Health and Safety Plan for the Oak Street Site, Taunton, Bristol County, Massachusetts*. The delivery of two office trailers, two portable restrooms, and the mobilization and staging of ERRS equipment was initiated on 5 August 2002.

Site preparation activities conducted by ERRS personnel consisted of clearing and grubbing the wooded area within the work zone; clearing trees and shrubbery along the property boundaries; constructing a truck turnaround and staging areas on the site; and installing silt fence and hay bales along the perimeter of the property.

3.3 Chronology of Removal Activities

Week Ending Friday, 9 August 2002

OSC Gardner, ERRS RM Sirois, and START SL Thompson mobilized to the site. SL Thompson was on site each week during site activities, unless otherwise noted. A safety meeting was conducted to discuss the HASP. Prior to the initiation of site activities, the HASP was signed by all personnel on site. For the duration of the removal, daily safety meetings were conducted prior to the initiation of site activities.

ERRS Foreman (FM) Paul Ledoux, Equipment Operator (EO) Steve Marchand, and Remediation Technicians (RTs) Dan Sylvia and Dave Hughes mobilized to site and commenced clearing and grubbing activities in preparation for excavation activities.

On 9 August 2002, ERRS FM Ledoux demobilized from site and RT Sylvia assumed foreman responsibilities for the remainder of site activities.

11 August 2002 through 6 September 2002

ERRS personnel mobilized to the site each week during this period to conduct clearing and grubbing activities. A wood chipper was mobilized to site to chip small trees that had been cleared.

Electricity was connected and telephone lines were installed to the trailers. Hay bales and silt fence were installed around the perimeter of the exclusion zone for erosion control purposes. An excavator was mobilized to be used upon commencement of excavation activities.

On 3 September 2002, Hayward-Boynton & Williams representatives mobilized to site and installed temporary orange caution fencing along the perimeter of the property.

Week Ending Friday, 13 September 2002

ERRS personnel were on site to complete the installation of the hay bales and silt fence and to prepare for excavation activities. All remaining trees and shrubs that had been previously cut down were chipped using the wood chipper. ERRS delineated the exclusion zone (EZ), the contamination

reduction zone (CRZ), and the clean zone (CZ) using orange high visibility fencing; and segregated and staged the empty overpack drums.

Week Ending Friday, 20 September 2002

Excavation activities commenced along the northeastern portion of the site. A 25-foot grid was established over the EZ, and grid sections were to be excavated and backfilled individually, starting from the east end of the EZ and working west. START utilized a global positioning system (GPS) receiver to record the geographic coordinates of the property corners and the perimeter fence line.

On 16 and 17 September 2002, START member Mandy Butterworth mobilized to the site to assist SL Thompson with preparation for excavation activities. START member Butterworth reviewed air monitoring activities to be employed by SL Thompson for the duration of excavation activities. Air monitoring instruments to be used included a photoionization detector (PID) Model 2020 by PE Photovac, a flame ionization detector (FID) Model MicroFID I/S by PE Photovac, and a personal DataRAM (pDR) particulate meter by Monitoring Instruments for the Environment (MIE). SL Thompson photodocumented site conditions for the duration of site activities [see Appendix C - Photodocumentation Log].

On 18 September 2002, START Project Leader (PL) Eric Ackerman arrived to perform a site audit.

On 18 September 2002, ERRS RT T.C. Lee mobilized to site from the Shaw New Jersey office.

Week Ending Friday, 27 September 2002

ERRS personnel arrived on site to continue to excavate the first 25-foot grid section located on the east side of the property. Air monitoring was performed daily by START personnel for each day during which intrusive activities were conducted. Excavation activities were conducted individually, excavating each grid section until natural ground level was reached or until all drums were removed. If air monitoring and direct observation indicated the absence of contamination, the grid section was backfilled using the soil that was originally excavated from that grid section. Each grid section was backfilled prior to commencement of excavation activities of the adjacent grid section. Drums encountered during excavation were staged on polyethylene sheeting for subsequent sampling and overpacking by ERRS personnel.

On 27 September 2002, RUSMAR Inc., delivered a foam application system to be used, if needed, to suppress odors that may emanate from the excavation area.

Week Ending Friday, 4 October 2002

ERRS personnel continued excavation activities. The first three grid sections along the eastern perimeter of the site were excavated to natural ground level and subsequently backfilled. No drums were encountered.

On 1 October 2002, a carbon treatment system was delivered to the site to be used, if needed, to filter air coming from the excavation area.

Week Ending Friday, 11 October 2002

ERRS personnel continued excavation activities. The fourth grid section was excavated to natural ground level and subsequently backfilled. No drums were encountered

On 11 October 2002, ERRS subcontractor, Ace Security Services, commenced overnight and weekend security coverage for the site.

Week Ending Friday, 18 October 2002

ERRS personnel continued excavation activities on the fourth grid section.

On 15 October 2002, a representative from Groundwater Treatment & Technologies, Inc., arrived on site to assist ERRS personnel in setting up the carbon treatment system.

Week Ending Friday, 25 October 2002

ERRS personnel continued excavation activities on the fourth grid section. Once excavation activities were completed on the fourth grid section, backfilling occurred. No drums were encountered.

On 23 and 24 October 2002, no site activities occurred.

Week Ending Friday, 1 November 2002

ERRS personnel continued excavation activities. The fifth grid section was excavated and two drums were encountered and removed. The drums were labeled D001 and D002 by ERRS personnel.

On 1 November 2002, ERRS personnel sampled and overpacked drums D001 and D002.

Week Ending Friday, 8 November 2002

On 4 November 2002, START member Mark Hall mobilized to the site to assume SL responsibilities for the day.

ERRS personnel continued excavation activities in the fifth grid section. Three drums were encountered, removed, and labeled D003, D004, and D005.

On 5 November 2002, drums D003, D004, D005 were sampled and overpacked by ERRS personnel.

On 5 November 2002, excavation activities were discontinued for the remainder of the week due to mechanical problems with the excavator.

Week Ending Friday, 15 November 2002

ERRS personnel continued excavation activities on the fifth grid section. Thirty-one drums were encountered, removed, and labeled D006 through D035.

On 15 November 2002, drums D006 through D035 were sampled and overpacked by ERRS personnel.

Week Ending Friday, 22 November 2002

ERRS personnel continued excavation activities in the fifth grid section. Eleven drums were encountered, removed, and labeled D036 through D046.

On 21 and 22 November 2002, START member Mandy Butterworth mobilized to the site and assumed SL duties.

On 22 November 2002, drums D036 through D046 were sampled and overpacked by ERRS personnel.

On 22 November 2002, ERRS RT Lee demobilized from the site.

Week Ending Wednesday, 27 November 2002

ERRS personnel backfilled the fifth grid section and began excavating the sixth grid section which was located approximately at the center of the site.

On 27 November 2002, all personnel demobilized from the site for the Thanksgiving holiday.

Week Ending Friday, 6 December 2002

ERRS personnel continued the excavation of the sixth grid section.

On 2 December 2002, ERRS Transportation and Disposal (T&D) Coordinator Gary Benham mobilized to site to perform hazard categorization of the drum samples.

On 5 December 2002, a front-end loader was mobilized to assist with excavation and overpacking.

Week Ending Friday, 13 December 2002

ERRS personnel continued the excavation of the sixth grid section. Twenty drums were encountered, removed, and labeled D047 through D066.

On 12 December 2002, a drum was excavated with a label marked ICI. The drum, labeled D066, was sampled and overpacked by ERRS personnel. The potentially responsible party (PRP) Zeneca Inc. (Zeneca), was notified that a drum bearing one of their company labels (ICI) was recovered during excavation activities. A determination was made that excavation activities would continue

until further notice by EPA OSC Gardner. MA DEP representatives Dan Crafton and Richard Packard arrived on site to photodocument drum D066.

On 13 December 2002, Ken Lafferty from Maverick Construction Management Services, Inc, arrived on site to sample drum D066 for Zeneca.

Twenty drums labeled D047 through D066 were sampled and overpacked by ERRS personnel.

Week Ending Friday, 20 December 2002

ERRS personnel continued the excavation of the sixth grid section. Ten drums were encountered, removed, and labeled D067 through D076. On 16 December 2002, ERRS RT Clifford Bell mobilized to the site.

On 19 December 2002, ERRS T&D Coordinator Benham arrived on site to collect the samples from the 2 December 2002 hazard categorization of the drums. The samples were delivered to the EPA New England Regional Laboratory (NERL) for analysis, per OSC Gardner's request. The samples were analyzed VOCs, semivolatile organic compounds (SVOCs), metals, and pesticide/polychlorinated biphenyls (Pest/PCBs).

On 20 December 2002, 10 drums were encountered, removed, and labeled D067 through D076, sampled and overpacked by ERRS personnel. An ICI label was observed on drum D070.

Week Ending Friday, 27 December 2002

ERRS personnel backfilled the sixth grid section.

On 23 December 2002, PRP representatives from Geosyntec Consultants (Geosyntec) arrived on site to examine site conditions and sample drum D066 for Zeneca.

On 26 December 2002, START member Wayne Brown mobilized to site, assumed SL duties, and recorded the lateral extent of the completed excavation area using a TrimbleTM Pathfinder Pro XRS Global Positioning System (GPS) with TSCI Data Logger, per OSC Gardner's request [See Appendix D - Post-Excavation Diagram (Figure 3)].

30 December 2002 through 10 January 2003

ERRS personnel continued backfilling the sixth grid section. After backfilling activities were completed, ERRS personnel began decontaminating and demobilizing the equipment.

On 2 January 2003, a representative from Geosyntec arrived on site to sample drum D070 for Zeneca.

On 3 January 2003, SL Thompson demobilized from the site.

On 10 January 2003, EPA and Zeneca met to discuss previous site activities conducted by EPA during the removal action. Upon the completion of the meeting, Zeneca indicated a willingness to take over the cleanup activities at the site.

On 10 January 2003, ERRS personnel demobilized from the site.

3.4 Community Relations

Involvement with the community leaders of the City of Taunton was coordinated by EPA OSC Gardner, both prior to, and during the removal action. Prior to mobilization, the local hospital, as well as the local fire and police departments, were notified of scheduled activities. Pollution Reports (POLREPS) were prepared by OSC Gardner throughout the duration of the removal action and sent to Federal, State and local officials to keep them informed of the site activities.

4.0 ESTIMATED COSTS OF THE REMOVAL ACTION

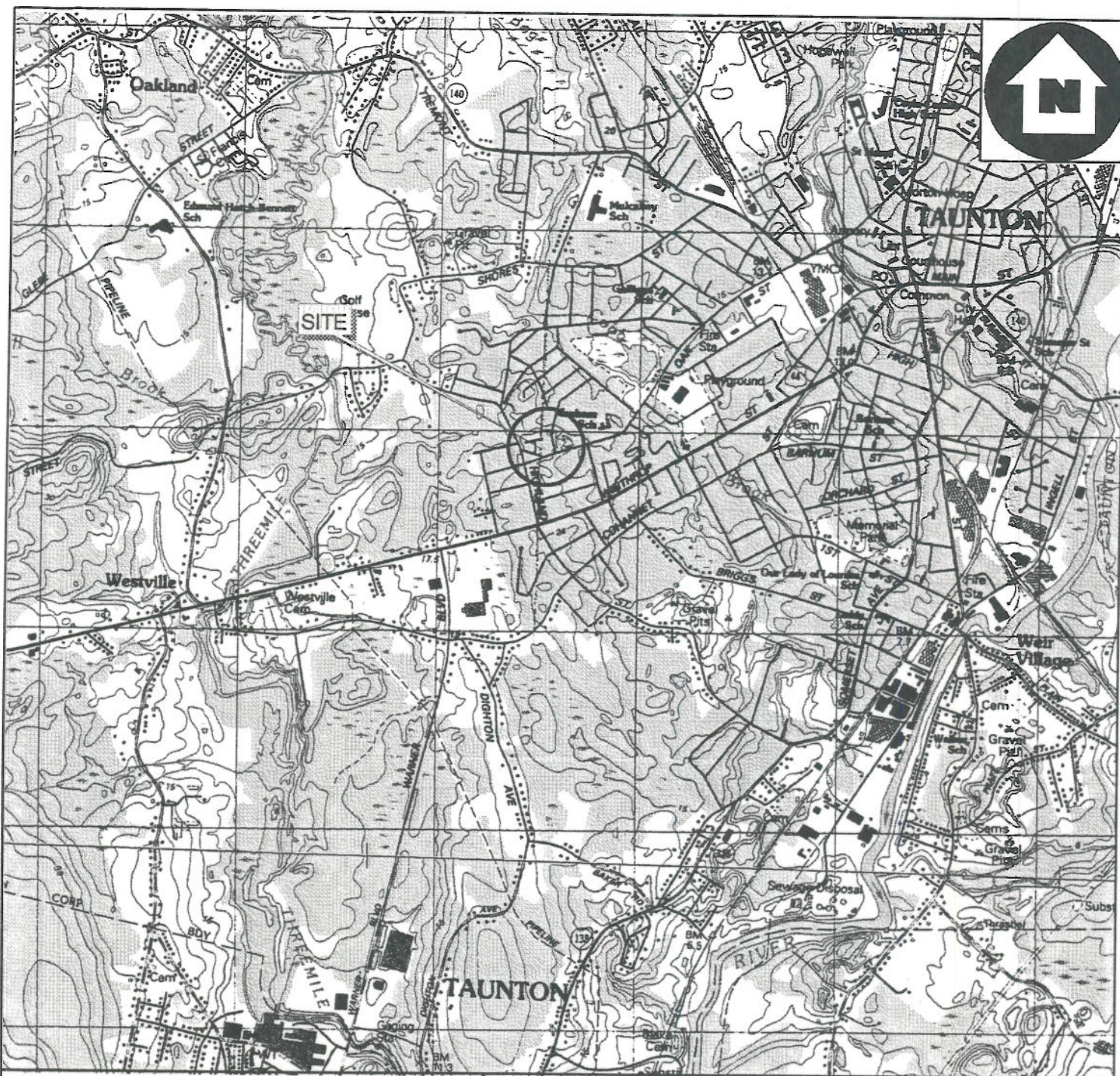
EPA resources committed under this Removal Action, conducted from 5 August 2002 through 21 February 2003, are summarized below:

START Costs:	\$ 54,196
ERRS Costs:	\$ 326,605
EPA Costs:	\$ 64,800
TOTAL:	<u>\$ 445,601</u>

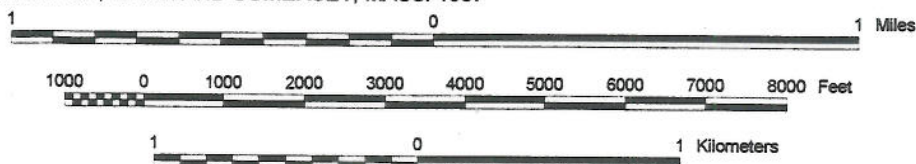
This accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

Appendix A

Site Location Map (Figure 1)



BASE MAP IS A PORTION OF THE FOLLOWING 7.5 X 15' U.S.G.S. QUADRANGLE(S):
TAUNTON, MASS. AND SOMERSET, MASS. 1987



SITE LOCATION MAP

OAK STREET SITE
OAK STREET
TAUNTON, MASSACHUSETTS

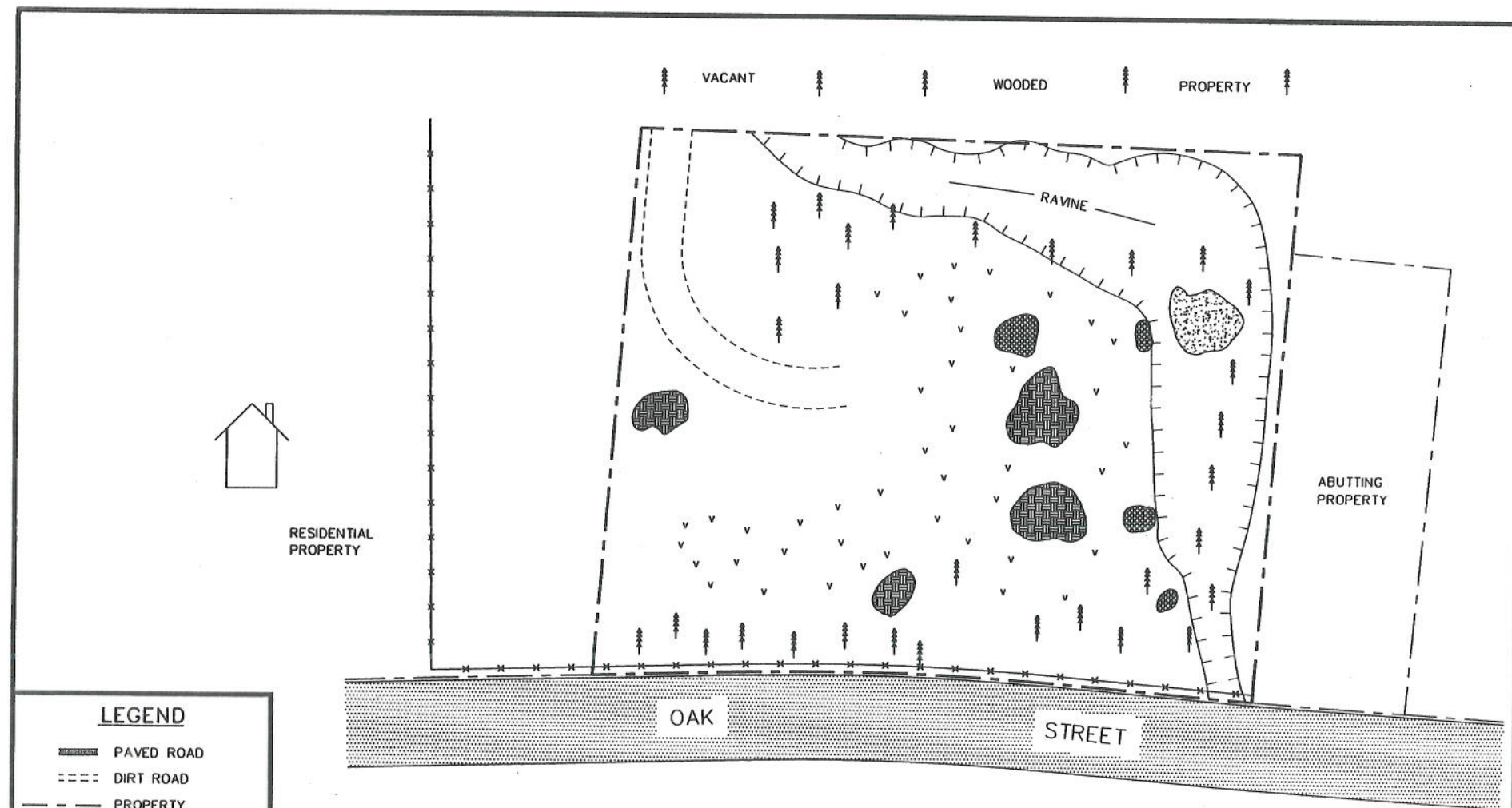


REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TDD #	DRAWN BY:	DATE:
02-05-0218	THOMPSON	02/04/03
FILE NAME:	FIGURE 1	
E:\ARC_APRS\START2\OAKSTREET.APR		

Appendix B

Site Diagram (Figure 2)



LEGEND

- PAVED ROAD
- DIRT ROAD
- PROPERTY LINE
- WOODED AREA
- GRASS/SHRUBS
- FENCE LINE
- EMBANKMENT (TICK MARKS IN DOWNSLOPE DIRECTION)
- RESIDENCE
- SOIL PILE
- ASPHALT PILE
- CONCRETE PILE

SITE DIAGRAM

OAK STREET SITE
OAK STREET
TAUNTON, MASSACHUSETTS



REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TDD #
02-05-0218

DRAWN BY:
W. SHAW

DATE
2/28/03

FILE NAME:
R:\02050218\FIG2.DWG

FIGURE 2



Appendix C

Photodocumentation Log

PHOTOGRAPHY LOG SHEET
Oak Street Site • Taunton, Massachusetts



SCENE: View of the entrance to the site. Photograph taken facing north.

FRAME NUMBER: 00 **DATE:** 6 August 2002

TIME: 0735

SKY CONDITION: Clear

PHOTOGRAPH BY: Alysha Thompson

WITNESS(ES): none

CAMERA: Olympus

SETTING: Automatic

FILM TYPE: 35-mm

FILM ROLL: 5245



SCENE: View of site conditions during site clearing activities. Photograph taken facing northwest.

FRAME NUMBER: 01 **DATE:** 8 August 2002

TIME: 0741

SKY CONDITION: Clear

PHOTOGRAPH BY: Alysha Thompson

WITNESS(ES): none

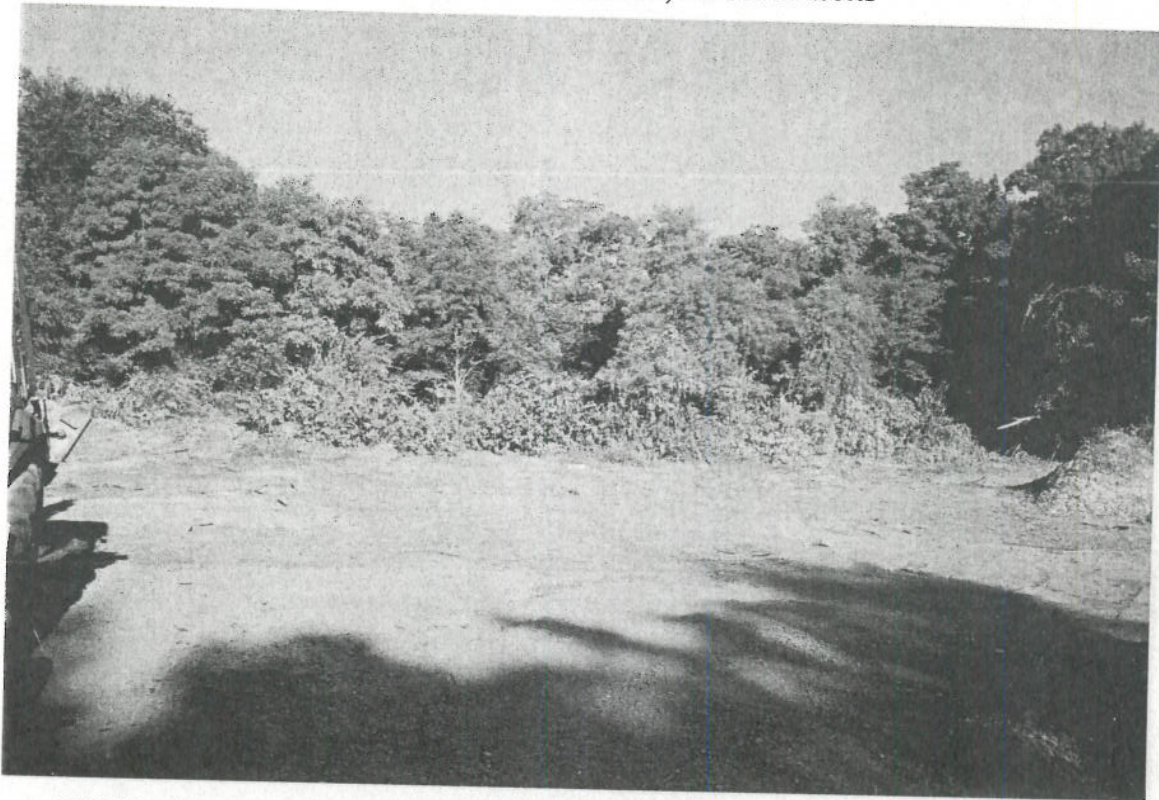
CAMERA: Olympus

SETTING: Automatic

FILM TYPE: 35-mm

FILM ROLL: 5245

PHOTOGRAPHY LOG SHEET
Oak Street Site • Taunton, Massachusetts



SCENE: View of the site after clearing and grubbing activities were completed. Photograph taken facing west.
FRAME NUMBER: 06 **DATE:** 21 August 2002 **TIME:** 0802 **SKY CONDITION:** Clear
PHOTOGRAPH BY: Alysha Thompson **WITNESS(ES):** none
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35-mm **FILM ROLL:** 5245



SCENE: View of the ravine along the eastern portion of the site that was the origin of the first grid section to be excavated. Photograph taken facing north.
FRAME NUMBER: 07 **DATE:** 18 September 2002 **TIME:** 0846 **SKY CONDITION:** Clear
PHOTOGRAPH BY: Alysha Thompson **WITNESS(ES):** none
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35-mm **FILM ROLL:** 5245

PHOTOGRAPHY LOG SHEET
Oak Street Site • Taunton, Massachusetts



SCENE: View of the excavation of the first grid section on the east side of the site prior to the area being backfilled. Photograph taken facing west.

FRAME NUMBER: 11 **DATE:** 23 September 2002

TIME: 0957 **SKY CONDITION:** Overcast

PHOTOGRAPH BY: Alysha Thompson

WITNESS(ES): none

CAMERA: Olympus **SETTING:** Automatic

FILM TYPE: 35-mm **FILM ROLL:** 5245



SCENE: View of the excavation of the second grid section of excavation at original grade. Photograph taken facing east.

FRAME NUMBER: 13 **DATE:** 30 September 2002

TIME: 1129 **SKY CONDITION:** Clear

PHOTOGRAPH BY: Alysha Thompson

WITNESS(ES): none

CAMERA: Olympus **SETTING:** Automatic

FILM TYPE: 35-mm **FILM ROLL:** 5245

PHOTOGRAPHY LOG SHEET
Oak Street Site • Taunton, Massachusetts



SCENE: View of the excavation of the third grid section at original grade. Photograph taken facing northeast.
FRAME NUMBER: 17 **DATE:** 7 October 2002 **TIME:** 1513 **SKY CONDITION:** Overcast
PHOTOGRAPH BY: Alysha Thompson **WITNESS(ES):** none
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35-mm **FILM ROLL:** 5245



SCENE: View of the excavation of the first quarter of the fourth grid section to original grade. Photograph taken facing north.
FRAME NUMBER: 22 **DATE:** 28 October 2002 **TIME:** 1149 **SKY CONDITION:** Clear
PHOTOGRAPH BY: Alysha Thompson **WITNESS(ES):** none
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35-mm **FILM ROLL:** 5245

PHOTOGRAPHY LOG SHEET
Oak Street Site • Taunton, Massachusetts



SCENE: View of the excavation of the first quarter of the fifth grid section to original grade. Photograph taken facing northeast.

FRAME NUMBER: 24 **DATE:** 1 November 2002

TIME: 0746 **SKY CONDITION:** Clear

PHOTOGRAPH BY: Alysha Thompson

WITNESS(ES): none

CAMERA: Olympus **SETTING:** Automatic

FILM TYPE: 35-mm

FILM ROLL: 5245



SCENE: View of the drums excavated from the fifth grid section and overpacks drums. Photograph taken facing southeast.

FRAME NUMBER: 01 **DATE:** 12 November 2002

TIME: 0815 **SKY CONDITION:** Clear

PHOTOGRAPH BY: Alysha Thompson

WITNESS(ES): none

CAMERA: Olympus **SETTING:** Automatic

FILM TYPE: 35-mm

FILM ROLL: 5236

PHOTOGRAPHY LOG SHEET
Oak Street Site • Taunton, Massachusetts



SCENE: View of the drums excavated from the fifth grid section prior to being overpacked. Photograph taken facing northwest.

FRAME NUMBER: 02 **DATE:** 13 November 2002

TIME: 0755 **SKY CONDITION:** Overcast

PHOTOGRAPH BY: Alysha Thompson

WITNESS(ES): none

CAMERA: Olympus **SETTING:** Automatic

FILM TYPE: 35-mm **FILM ROLL:** 5236



SCENE: View of the fifth grid section. Photograph taken facing north.

FRAME NUMBER: 04 **DATE:** 18 November 2002

TIME: 0756 **SKY CONDITION:** Clear

PHOTOGRAPH BY: Alysha Thompson

WITNESS(ES): none

CAMERA: Olympus **SETTING:** Automatic

FILM TYPE: 35-mm **FILM ROLL:** 5236

PHOTOGRAPHY LOG SHEET
Oak Street Site • Taunton, Massachusetts



SCENE: View of the bottom of the fifth grid section. Photograph taken facing south.
FRAME NUMBER: 10 **DATE:** 21 November 2002 **TIME:** 1550 **SKY CONDITION:** Overcast
PHOTOGRAPH BY: Mandy Butterworth **WITNESS(ES):** none
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35-mm **FILM ROLL:** 5236



SCENE: View of drums with viscous product. Photograph taken facing east.
FRAME NUMBER: 13 **DATE:** 22 November 2002 **TIME:** 1318 **SKY CONDITION:** Overcast
PHOTOGRAPH BY: Mandy Butterworth **WITNESS(ES):** none
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35-mm **FILM ROLL:** 523

PHOTOGRAPHY LOG SHEET
Oak Street Site • Taunton, Massachusetts



SCENE: View of a fiber drum with a red label and white letters reading "ICI".

FRAME NUMBER: 20 **DATE:** 12 December 2002

TIME: 0946 **SKY CONDITION:** Overcast

PHOTOGRAPH BY: Alysha Thompson

WITNESS(ES): none

CAMERA: Olympus

SETTING: Automatic

FILM TYPE: 35-mm

FILM ROLL: 5236



SCENE: View of the second fiber drum with a red label and white letters reading "ICI".

FRAME NUMBER: 1A **DATE:** 18 December 2002

TIME: 1445 **SKY CONDITION:** Clear

PHOTOGRAPH BY: Alysha Thompson

WITNESS(ES): none

CAMERA: Olympus

SETTING: Automatic

FILM TYPE: 35-mm

FILM ROLL: 7057

PHOTOGRAPHY LOG SHEET
Oak Street Site • Taunton, Massachusetts

PHOTOGRAPH NEGATIVES

Oak Street Site

Task No. 4232

TDD No. 01-02-05-0218

Roll Nos. 5245

5236

7057



Weston Solutions, Inc.
Federal Programs Division
37 Upton Drive
Wilmington, Massachusetts 01887
978-657-5400 - Fax 978-658-0700

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

*Photograph Negatives
Oak Street Site*

Task No. 4232

TDD No. 01-02-05-0218

*Rolls Nos. 5245
5236
7057*

Appendix D

Post - Excavation Diagram (Figure 3)

